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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/485,657	03/24/2000	LEONARD COLIN ANDREWS	89073	2124

32116 7590 06/03/2005

WOOD, PHILLIPS, KATZ, CLARK & MORTIMER  
500 W. MADISON STREET  
SUITE 3800  
CHICAGO, IL 60661

EXAMINER
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MICHALSKI, JUSTIN I

ART UNIT	PAPER NUMBER
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2644

DATE MAILED: 06/03/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Interview Summary</b>	Application No.	Applicant(s)	
	09/485,657	ANDREWS, LEONARD COLIN	
	Examiner	Art Unit	
	Justin Michalski	2644	

All participants (applicant, applicant's representative, PTO personnel):

(1) Justin Michalski. (3) \_\_\_\_\_.

(2) F. William McLaughlin. (4) \_\_\_\_\_.

Date of Interview: 23 May 2005.

Type: a) ☒ Telephonic b) ☐ Video Conference  
c) ☐ Personal [copy given to: 1) ☐ applicant 2) ☐ applicant's representative]

Exhibit shown or demonstration conducted: d) ☐ Yes e) ☒ No.

If Yes, brief description: \_\_\_\_\_.

Claim(s) discussed: 1.


Identification of prior art discussed: \_\_\_\_\_.

Agreement with respect to the claims f) ☐ was reached. g) ☒ was not reached. h) ☐ N/A.

Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: Attorney of record faxed proposed amendment (see attached) and document "Sound Systems by Infinite Modular Power" (attached) Applicant argued the document shows the use of 18 gage wire compared to 24 gague in Cat-5 cable. The Office indicated the proposed amendment did not appear to be allowable.

(A fuller description, if necessary, and a copy of the amendments which the examiner agreed would render the claims allowable, if available, must be attached. Also, where no copy of the amendments that would render the claims allowable is available, a summary thereof must be attached.)

THE FORMAL WRITTEN REPLY TO THE LAST OFFICE ACTION MUST INCLUDE THE SUBSTANCE OF THE INTERVIEW. (See MPEP Section 713.04). If a reply to the last Office action has already been filed, APPLICANT IS GIVEN ONE MONTH FROM THIS INTERVIEW DATE, OR THE MAILING DATE OF THIS INTERVIEW SUMMARY FORM, WHICHEVER IS LATER, TO FILE A STATEMENT OF THE SUBSTANCE OF THE INTERVIEW. See Summary of Record of Interview requirements on reverse side or on attached sheet.

  
**SINH TRAN**  
 SUPERVISORY PATENT EXAMINER

Examiner Note: You must sign this form unless it is an Attachment to a signed Office action.

\_\_\_\_\_  
Examiner's signature, if required

## Summary of Record of Interview Requirements

### Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record

A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

### Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews

#### Paragraph (b)

In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135. (35 U.S.C. 132)

#### 37 CFR §1.2 Business to be transacted in writing.

All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiner's responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

The Interview Summary Form shall be given an appropriate Paper No., placed in the right hand portion of the file, and listed on the "Contents" section of the file wrapper. In a personal interview, a duplicate of the Form is given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephone or video-conference interview, the copy is mailed to the applicant's correspondence address either with or prior to the next official communication. If additional correspondence from the examiner is not likely before an allowance or if other circumstances dictate, the Form should be mailed promptly after the interview rather than with the next official communication.

The Form provides for recordation of the following information:

- Application Number (Series Code and Serial Number)
- Name of applicant
- Name of examiner
- Date of interview
- Type of interview (telephonic, video-conference, or personal)
- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does not restrict further action by the examiner to the contrary.
- The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case. It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the interview.

A complete and proper recordation of the substance of any interview should include at least the following applicable items:

- 1) A brief description of the nature of any exhibit shown or any demonstration conducted,
- 2) an identification of the claims discussed,
- 3) an identification of the specific prior art discussed,
- 4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner,
- 5) a brief identification of the general thrust of the principal arguments presented to the examiner,  
(The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)
- 6) a general indication of any other pertinent matters discussed, and
- 7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicant's record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

### Examiner to Check for Accuracy

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiner's version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, "Interview Record OK" on the paper recording the substance of the interview along with the date and the examiner's initials.

**WOOD, PHILLIPS, KATZ, CLARK & MORTIMER**

FOUNDED IN 1876

ATTORNEYS AT LAW

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SENT \_\_\_\_\_

NOT SENT \_\_\_\_\_

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**FAX COVER SHEET**

**DATE:** May 23, 2005

**ATTENTION:** Examiner Justin I. Michalski

**FROM:** F. William McLaughlin

**FAX NO.:** 571-273-7524

**RE:** Andrews Serial No. 09/485,657

**PAGES TRANSMITTED:** 6 +This Transmittal Page Only**ADDITIONAL MESSAGE:****Note: For discussion only. Please contact me to discuss. Thank you.****Bill**

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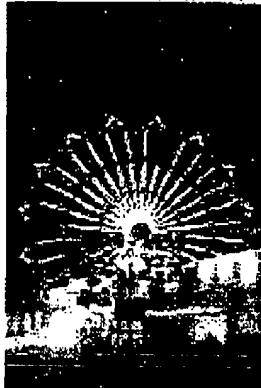
☐ **Overnight Mail** ☐ **Regular Mail**  
☐ **Hand Delivery** ☐ **Other: Fed Ex.**

sn 09/485657

## Proposed amendment for discussion only

1. (currently amended) A distributed stereo audio system, including: two or more speakers for the broadcast of stereo audio signals, a source of stereo audio signals, a stereo amplifier to amplify stereo audio signals and drive the speakers, and a mains operated electrical power supply to provide power to the amplifier; where the amplifier is located in the same room as the speakers, and remote from the signal source and power supply; and where the amplifier is connected to the signal source and power supply by means of a category 5 four pair twisted cable which provides, in respective conductors of the twisted pairs, right channel audio signals from the signal source to the amplifier, left channel audio from the signal source to the amplifier, data between the amplifier and the source of stereo audio signals and DC power from the power supply to the amplifier.

# Sound Systems by Infinite Modular Power



*Theme Parks*



*Hotels*



*Shopping Malls*



*Council Chambers*



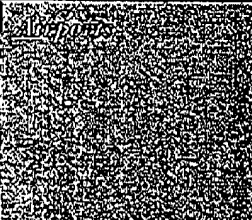
*Airports*



*Schools*



*Health Clubs*



*Houses of Worship*



*Trains & Buses*



*Sports Bars*



*Boardrooms*



*Restaurants*



*Home & Gardens*



*Museums*



*Doctors Offices*



*Retail Stores*

# THE NEXT LEVEL IN THE EVOLUTION

Once in a while something enters the market and changes the rules.

The outdated transformer is removed from the system achieving higher quality sound, easier design, and faster installation than ever before.

With Infinite Modular Power Systems highs soar effortlessly above the deep bass as music and voice is reproduced with unprecedented clarity.

## Advancing the art of sound system design

10 years of R&D and field testing have produced Infinite Modular Power.

### Time Saving Solutions

Leading edge products that work with Plug and Play simplicity.

### Technology Solutions

Line level signal through out the system means that line level devices can be added anywhere in the system.

### Operation and Reliability Solutions

Our electronics set the standard for reliability and functionality with an unmatched 7 year warranty.

### Market Solutions

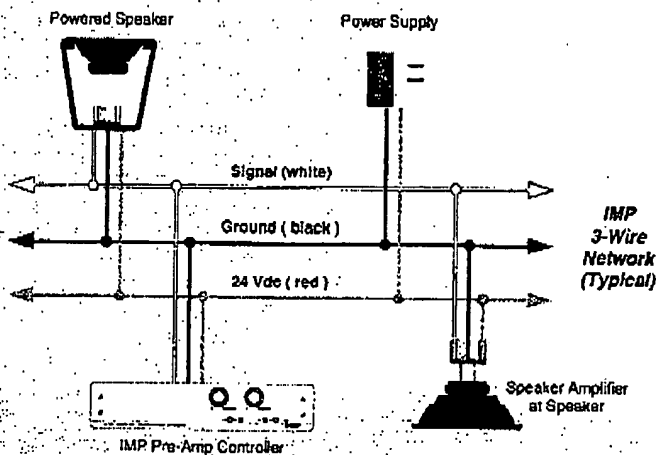
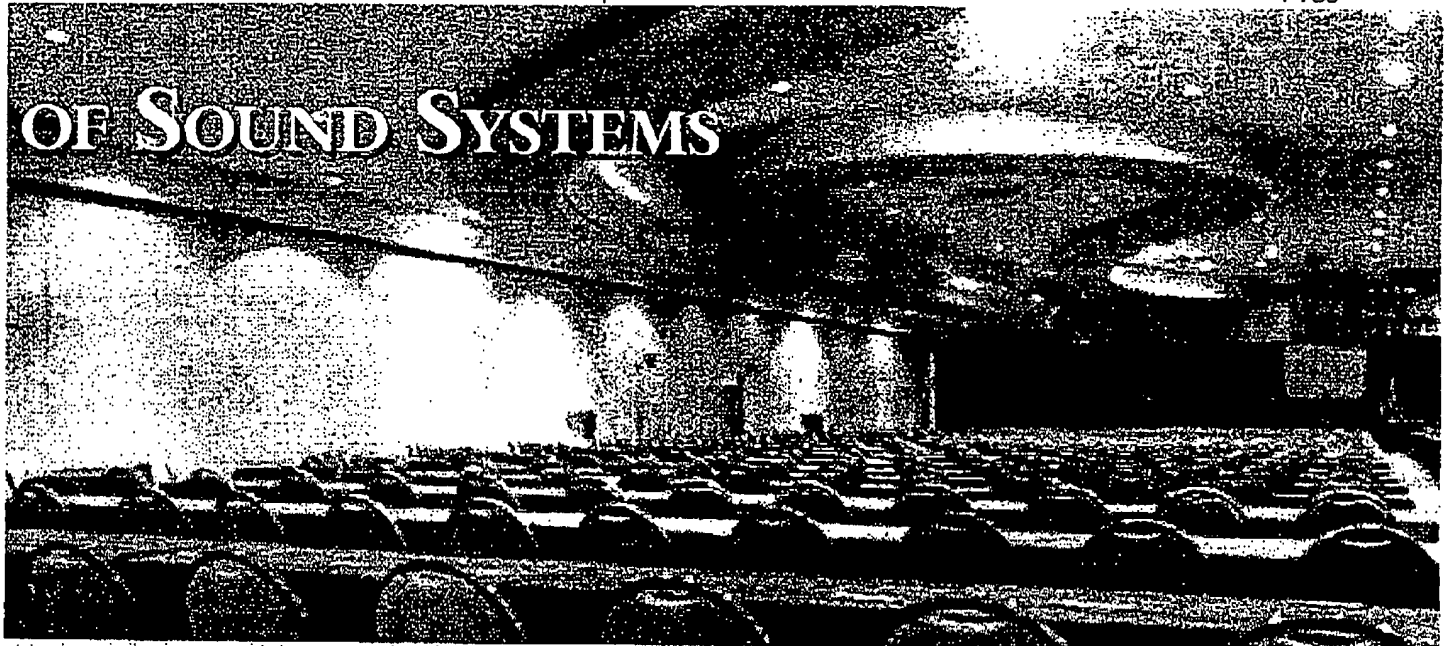
Name your niche. Small or a large, simple or complex.  
If you are using more than two speakers, IMP has the solution for you.

### Sound Quality Solution

Full frequency response of 20 Hz to 20KHz gives all the highs and lows the human ear can hear.

Delivering digital quality sound reproduction.

# OF SOUND SYSTEMS



- so advanced it's simple

IMP is a complete system with

1. Better sound with improved fidelity, dynamic range and high articulation.
2. Modular "plug and play" Network that reduces system complexity and maximizes creative flexibility.
3. Savings in labor installation costs.
4. Space saving. No Amplifier racks.
5. Rugged reliability and serviceability.
6. User-friendly control results in savings on training and call backs.
7. Easy Interconnection. Simple upgrades and expansion.
8. Safe, low 24 VDC power.
9. 7 year warranty on our electronics.
10. Infinite control options.

One vendor for complete system



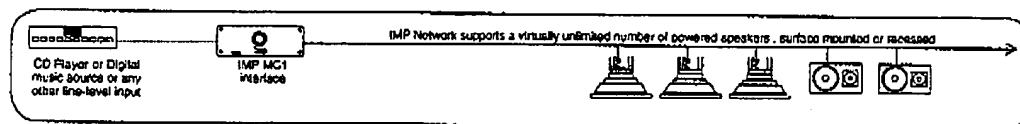
# The Practical Science of Infinite Modular Power

## Multiple Input, Multiple Zone, Multiple Speaker System

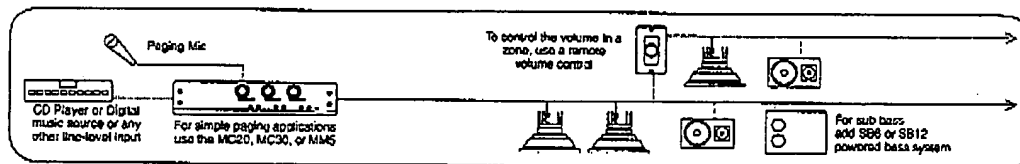
Infinite Modular Power was conceived as a dynamic set of components that expand the benefits of distributed amplification eliminating traditional drawbacks or limitations. Exceptional quality, absolute reliability, and infinite flexibility are the design criteria. In concept, IMP is a 5-wire line-level bus onto which the safe 24 volt DC current is applied separately from the audio signal throughout the system. Power and signal can be drawn at any given point on the bus, where required. This provides a high audio level (SPL) through the system, while low source impedance and high load impedance make the audio signal transparent, precluding the probability of radio frequency, electromagnetic or electrostatic interference. This also makes shielded cable unnecessary. With no large signal line currents, the IMP System has negligible line loss. In an IMP system power is applied where it is needed, at each loudspeaker.

The system is color coded and modular for easy installation and maintenance. Installed with 18 gauge 5 conductor cable (or mono 4 conductor for stereo). Using Daisy chain or home-run method, our speaker wiring harnesses, and quick connect plug, make this a clean and efficient system that installs quickly.

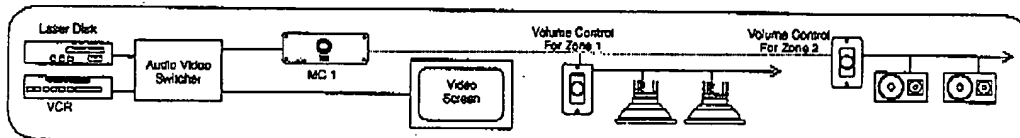
Basic Music System  
for Restaurant, Bar,  
Retail Store  
Doctors Office etc.



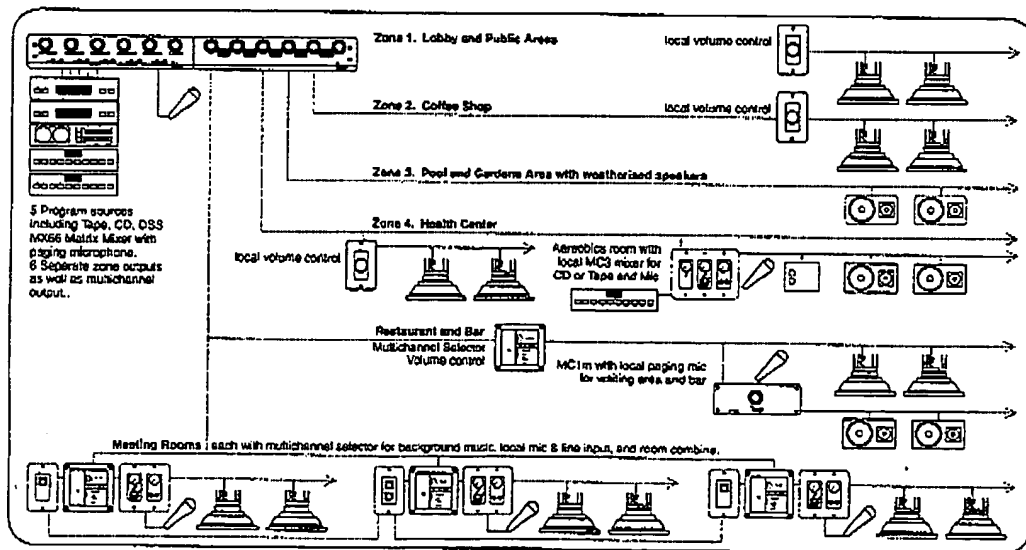
Typical  
Store Background Music  
and Paging System



Typical  
Multimedia System



Overview  
of a Typical  
Multiple Function  
Hotel System



# How to Build A System

## 1. Select the Speakers.

- ☐ Ceiling mounted (page 12)
- ☐ IMP Self-powered (page 10)
- ☐ Other makes of speakers

No limit to the number of speakers and speaker amplifiers in IMP Systems.

Decide how loud the system will be.

Does your system require low level for background applications?

Or moderate level for articulate microphone based systems.

Or a Rock and Roll foreground Music system?

Or anywhere in between

## Select the Speaker Amplifiers

- ☐ 5, 10, 20, 40, or 75 watt

Power where you need it, at the speaker. Achieve increased damping and control over the speaker cone for exceptional performance and overcome line losses, phase distortion, signal degradation and restricted frequency response present in traditional systems. Choose the speaker amplifiers for your system on Page 6

## 2. Select the Mixers

- ☐ IMP Mixers. Features for any system. (page 8)
- ☐ Another brand of mixer (plus IMP System Interface)

## Add Ancillary Control Devices

- ☐ Volume Controls
- ☐ Local Equalizer
- ☐ Ambient noise volume control
- ☐ Line Monitor
- ☐ Remote program selectors
- ☐ Room combiner

Use any of these components individually or in any combination that you choose.

## 3. Choose the Power supply.

- ☐ 2, 4, 12, 18, 27, and 35 Amp. (page 7)
- Selecting the correct power supply or supplies for each system is made easy by IMP's Power Unit rating system. All the details are on Page 7

## The IMP speaker line is our network.

A free flowing plug and play network created by the modular nature of the distributed amplification. It intelligently links IMP line-level devices anywhere, effectively removing the boundaries present in traditional systems. Multiple IMP devices can be used in combination in a system without complicated wiring, and different power ratings of speaker amplifiers operate flawlessly in the same system. Cascade, link and combine mixers for multiple tasks; join rooms with a switch; select multiple programs remotely; and, zone your system to suit your needs. Install the power supply anywhere in the system. The IMP Network is unique because it is infinitely expandable and highly flexible.

1



Speaker amplifier with plug in harness.



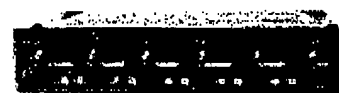
Installs

on the speaker

inside a cabinet

in weatherproof box for outdoor or wet locations

2



Signal input is controlled by a preamplifier/mixer.

Local control is provided by ancillaries such as:

Volume controls

Auto level controllers

Local equalizers

Multi channel selectors

3



Power supply provides the power

Connect everything together with standard 18 gage 3 conductor cable

IMP's  
Infinite  
Network

Create the system your customer wants, at a price that he likes, with the simple operation that he will appreciate, and save time and money

## Things you will not need:

- ☐ Transformers
- ☐ Racks and rack space
- ☐ Labor intensive wiring
- ☐ Bulky amplifiers

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